BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

VIDYARANYAPURA SUB DIVISION

BYATARAYANAPURA DIVISION

NAME OF WORK:- IMPROVEMENTS TO ROADS AND DRAINS AT KUVEMPUNAGARA 1ST STAGE, 2ND STAGE AND SURROUNDING AREA IN NEW WARD NO. 14 (KUVEMPUNAGARA).

ESTIMATE COST: 12.68 LAKHS

Bruhat Bangalore Mahanagara Palike
Executive Engineer Bytarayanapura Division

Improvements to Roads and Drains at Kuvempunagara 1st Stage, 2nd Stage and Surrounding area in New ward No. 14 (Kuvempunagara).

								Estimate cost	12.68 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Earth work Excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2023-24 Vol -I Pg No 5 item no 1.4.1)**								
	Basic Rate	**242.00**							
	Area Weightage 10%	**24.20**							
	Total Rate	**266.20**							
	Rcc Drain								
	Kuvempunagara								
	Cross Roads	2	88.00	1.00	1.02	179.52			
						179.52	**Cum**	**266.20**	**47,788.22**
2	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. . **Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates (PWD SR 2023-24 Vol -I Pg 15 item no 2.1.2)**								
	Basic Rate	**5664.00**							
	Area Weightage 10%	**566.40**							
	Total Rate	**6230.40**							
	Rcc Drain								
	Kuvempunagara								
	Cross Roads	2	88.00	0.90	0.15	23.76			
						23.76	**Cum**	**6230.40**	**148034.30**
3	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification **H. All other type of structures (PWD SR 2023-24 Vol -I Pg 99 item no 2.11.h)**								
	Basic Rate	**79011.00**							
	Area Weightage 10%	**7901.10**							
	Total Rate	**86912.10**							
	For RCC Drain, 60kg/Sqm	1	51.48	60.00		3088.80			
						3.09	**Tn**	**86912.10**	**268454.09**
4	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications **M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2023-24 Vol -I Pg 16 item no 2.4.2))**								
	Basic Rate	**6323.00**							
	10% for Centring	**632.30**							
	Sub Total	**6955.30**							
	Area Weightage 10%	**695.53**							
	Total Rate	**7650.83**							
	Drain Raft								
	Kuvempunagara								
	Cross Roads	2	88.00	0.75	0.15	19.80			
	Drain Side Wall								
	Kuvempunagara								

	Cross Roads	4	88.00	0.15	0.60	31.68			
						51.48	**Cum**	**7650.83**	**393864.73**
5	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete. **(PWD SR 2023-24 Vol -II Pg No. 177 item No. 17.14)**								
	Basic Rate	**1170.00**							
	Area Weightage 10%	**117.00**							
	Total Rate	**1287.00**							
	Rcc Drain Slabs								
	Kuvempunagara								
	Cross Roads	2	88.00	0.75		132.00			
						132.00	**Sqm**	**1287.00**	**169884.00**
6	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 15 km = 150 t.km **(PWD SR 2023-24 Vol-III Page No. 5, Item No.1.4A)**								
	Basic Rate	**180.00**							
	15KM Lead = 12*15	**180.00**							
	Area Weightage 10%	**18.00**							
	Total Rate	**198.00**							
	Qty frm Item No-1		179.52	1.28		229.79			
						229.79	**t.Km**	**198.00**	**45,497.55**
								Total Construction Cost	**1073522.90**
								18% GST for Construction Cost	**193234.12**
								Sub Total - 1	**1266757.02**
								Utility Shifting,Miscellaneous and Rounding off	**1,242.98**
								GRAND TOTAL	**1268000.00**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2023-24 and Date Rates.

Assistant Engineer
Ward No-14
BBMP Bangalore

Asst. Executive Engineer,
Vidyaranyapura Sub Division
BBMP Bangalore

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Executive Engineer,
Byrarayanapura Division
BBMP Bangalore

ADMINISTRATIVE SANCTION

Accorded for Rs. 12.68 Lakhs Only

Head of A/c. P1878 18pw Works

Div. Ref. No. 58/23-24 Date. 01-2-24

AE/DM

EE(BTP) BBMP

TECHNICAL SANCTION

Accorded for Rs. 12.68 Lakhs only

Head of A/c. P1878 18pw Works

Div. Ref. No. 32/23-24 Date. 01/02/24

AE/DM

EE(BTP) BBMP